

# EE 206: Homework #6

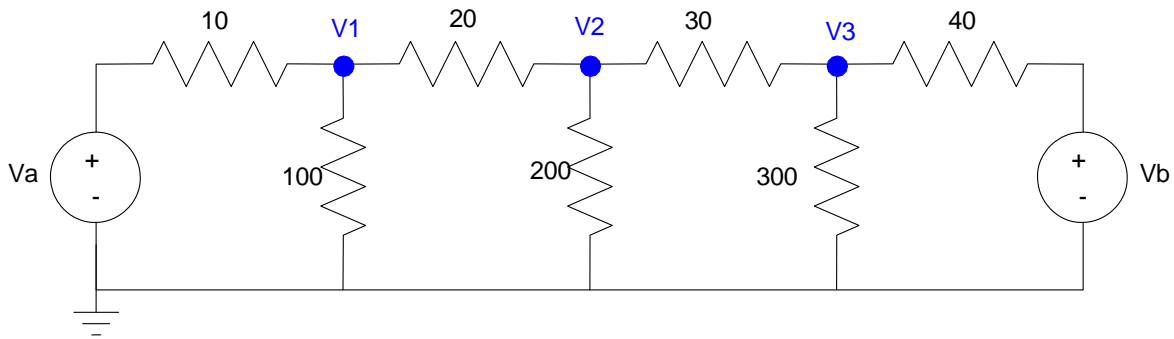
Superposition and Op Amps. Due Monday March 2nd

Please make the subject "EE 206 HW#1" if submitting homework electronically to Jacob\_Glower@yahoo.com (or on blackboard)

## Superposition

- 1) Use PartSim to determine the voltage at Y assuming  $V_a = 10V$ ,  $V_b = 0V$ .
- 2) Use PartSim to determine the voltage at Y assuming  $V_a = 0V$ ,  $V_b = 5V$ .
- 3) Use PartSim to determine the voltage at Y assuming  $V_1 = 10V$ ,  $V_b = 5V$

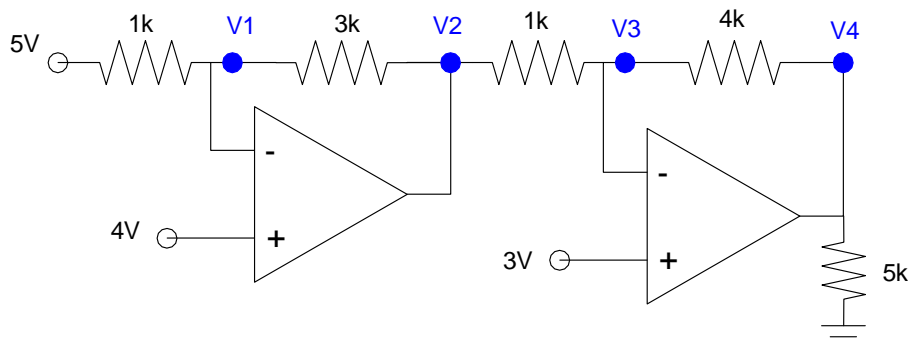
Does problem 1 + problem 2 = problem 3?



	$V_a$	$V_1$	$V_2$	$V_3$	$V_b$
$V_a = 10V$ $V_b = 0V$	10.00 V				0.00 V
$V_a = 0V$ $V_b = 5V$	0.00 V				5.00 V
$V_a = 10V$ $V_b = 5V$	10.00 V				5.00 V

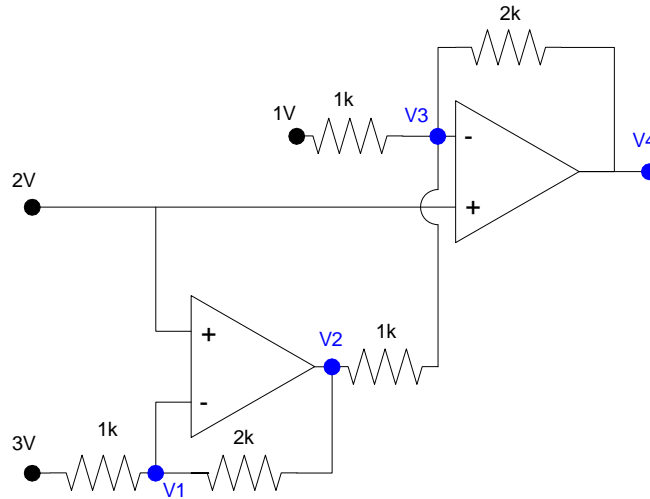
## Op Amps

- 4) Write the voltage node equations for the following op-amp circuit. Assume ideal op-amps.
  - Solve for  $V_1$ ,  $V_2$ ,  $V_3$ , and  $V_4$



5) Write the voltage node equations for the following op-amp circuit. Assume ideal op-amps.

- Solve for V1, V2, V3, and V4 assuming ideal op-amps



6) Write the voltage node equations for the following op-amp circuit. Assume ideal op-amps.

- Solve for V1, V2, V3, and V4 assuming ideal op-amps

